

query	LVAFADFG-SVTFTNAEATSGGSTVGPSDATVMDIEQDGSVLTTETSVSGDS-VTV
sequence1	LVAFADFG-SVTFTNAEATSGGSTVGPSDATVMDIEQDGSVLTTETSVSGDS-VTV
sequence2	LVPFANFG-TVTFTGAEATTSSGTVTAADATLIDIEQNGEVLTSVTVS GST-VTV
sequence3	LVQFANFG-TVTF TGASATQNGESVGVTGAQIIDLQQN-SVLTSVSTSSNS-VTV
sequence4	LVNFADFD-TVTFKDCSPSVSG-----STIVDIRQSLLEVLTCESTGTTTVTC
sequence5	FVPFASFSPAVEFTDCSVTSDGESVSLDDAQITQVIINNQDVTDCSVSGTT-VSC
sequence6	FVPFASFSPAVEFTDCSVTSDGESVSLDDAQITQVIINNQDVTDCSVSGTT-VSC
sequence7	FVPFASFSPAVEFTDCSVTSDGESVSLDDAQITQVIINNQDVTDCSVSGTT-VSC

### FIGURE 1

	B	I	G	T	O	W	N	S	O	W	N
B	2										
I		2									
G			2								
B	2										
R											
O					2				2		
W						2				2	
N							2				2
T				2							
O					2				2		
W						2				2	
N							2				2
O					2				2		
W						2				2	
N							2				2

FIGURE 2.

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**FIGURE 3.**

**FIGURE 4.**

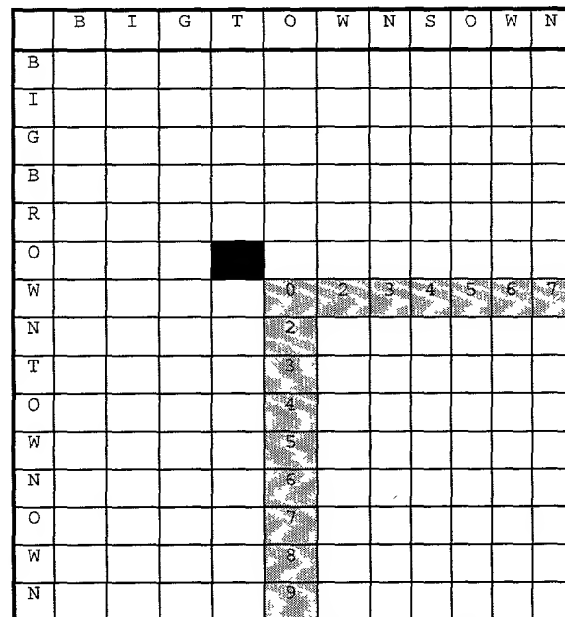


FIGURE 5.

FIGURE 5

**FIGURE 6.**

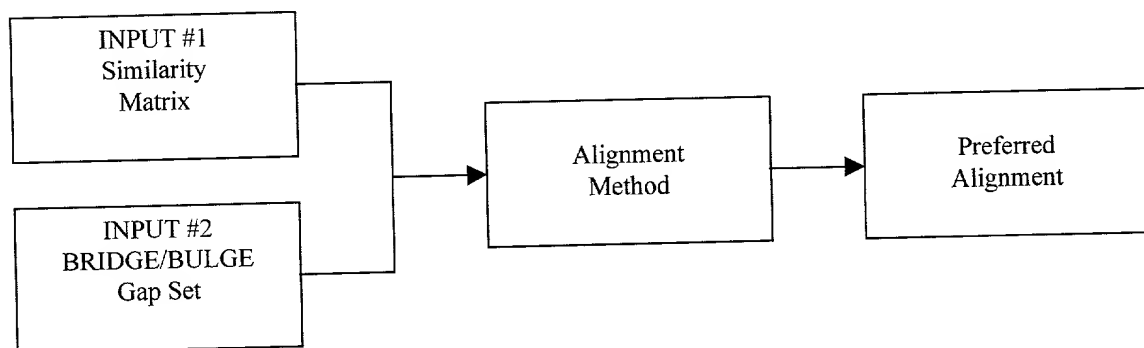
**FIGURE 7**

BIG-TOWNSOWN---

BIGBROWNTOWNOWN

Similarity = 18. Gap = -2. Total Score = 16

[illegible]



**FIGURE 8**



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Gap Type	Start Res.	End Res.	# Residues
BULGE	3 (G)	5 (O)	7
BRIDGE	7 (N)	9 (O)	1

FIGURE 9.

800.445.3450

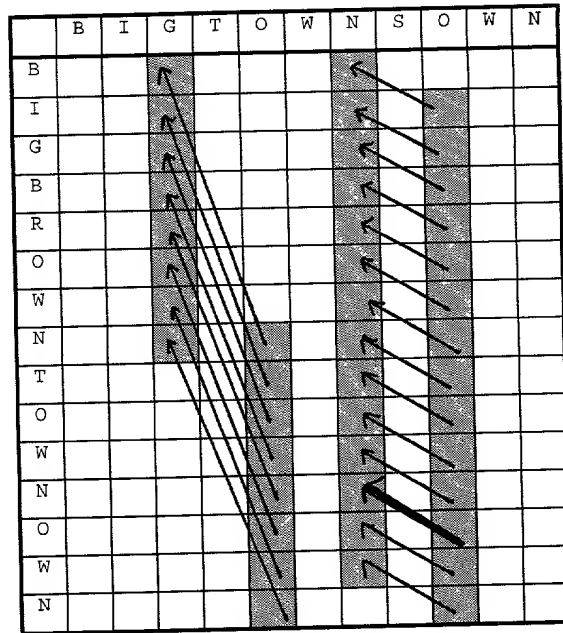


FIGURE 10

FOR CO-SECRET

	B	I	G	T	O	W	N	S	O	W	N
B	2										
I		2									
G			2								
B	2										
R											
O					2				2		
W						2				2	
N							2				2
T				2							
O					2				2		
W						2				2	
N							7	6	1	0	2
O	0	0	0	1	6	0	0	1	6	0	0
W	0	0	0	0	0	4	0	0	0	4	0
N	0	0	0	0	0	0	2	0	0	0	2

FIGURE 11.

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	B	I	G	T	O	W	N	S	O	W	N
B	2										
I		2									
G			12	7	5	6	3	0	0	0	0
B	7	9	12	9	2	5	6	3	0	0	0
R	8	6	5	12	5	1	5	6	1	0	0
O	11	8	6	5	12	5	1	1	6	0	0
W	8	11	8	2	5	10	3	0	0	4	0
N	6	8	11	8	3	5	8	3	0	0	2
T	6	6	8	11	6	3	5	6	1	0	0
O	3	6	3	6	11	6	3	1	6	0	0
W	1	3	6	3	4	9	6	3	0	4	0
N	0	1	3	6	1	1	7	6	1	0	2
O	0	0	0	1	6	0	0	1	6	0	0
W	0	0	0	0	0	4	0	0	0	4	0
N	0	0	0	0	0	0	2	0	0	0	2

FIGURE 12

FIGURE 12

	B	I	G	T	O	W	N	S	O	W	N
B											
I											
G											
B				0	3	5	7	9	11	13	15
R				3							
O				5							
W				7							
N				9							
T				11							
O				13	1						
W				15							
N				17							
O				19							
W				21							
N				23							

FIGURE 13

TOP SECRET

	B	I	G	T	O	W	N	S	O	W	N
B	16	9	5	6	3	0	0	0	0	0	0
I	12	14	7	5	6	3	0	0	0	0	0
G	9	12	12	7	5	6	3	0	0	0	0
B	7	9	12	9	2	5	6	3	0	0	0
R	8	6	5	12	5	1	5	6	1	0	0
O	11	8	6	5	12	5	1	1	6	0	0
W	8	11	8	8	5	10	3	0	0	4	0
N	6	8	11	8	3	5	8	3	0	0	2
T	6	6	8	11	6	3	5	6	1	0	0
O	3	6	3	6	11	6	3	1	6	0	0
W	1	3	6	3	4	9	6	3	0	4	0
N	0	1	3	6	1	1	7	6	1	0	2
O	0	0	0	1	6	0	0	1	6	0	0
W	0	0	0	0	0	4	0	0	0	4	0
N	0	0	0	0	0	0	2	0	0	0	2

FIGURE 14.

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**FIGURE 15**

BIG-----TOWNSOWN

BIGBROWNT-OWN-OWN Sim. = 18. Gap = -2. Total Score = 16.

TOP SECRET



FIGURE 16

FOOT-20-92T50000



>P1;1b4k  
structureX:1b4k: 10 :A : 335 :A :  
YPYTRLRRNRDDFSRRLVRENVLTVDLILPVFVLDGVNQRESIPSMGPVERLSIDQLLIEAE  
EWVALGIPALALFPVT:PVEKKSLDAAEAYNPEGIAQRATRALRERFPELGIITDVALDPFTTH  
GQDGILDDDDGYVLNDVSIIDVLRQALSHAEAGAQQVAPSDMMDGRIGAIRESAG:HTNVRI  
MAYSAKYASAYYGPFRRDAVGSASNLGKGNKATYQMDPANSDEALHEVAADLAEGADMVMVKPGM  
PYLDIVRRVK:DEFRAPTFVYQVSGEYAMHMGAIQNGWLAE:SVILES LTAFKRAGADGILTYF  
AKQA AEQLRR\*

>P1;SC001  
sequence:SC001: 13 : : 340 :  
EISSVLAGGYNHPLLRRQWQSERQLTKNMLIFPLFISDNPDDEFTEIDSLPNINRIGVNRLKDYLK  
PLVAKGLRSVILFGVPLIPGTKDPVGTAADDPAGPVIQGIKFIREYFPELYIICDVCLCEYTSH  
GHCGLYDDGTINRERSVSRLAAVAVNYAKAGAHCVAPSDMIDGRIRDIKRGLINANLAHKTFV  
LSYAAKFSGNLYGPFRRDAACSA::PSNGDRKCYQLPPAGRGLARRALERMSEGADGIIVKPS  
FYLDIMRDASEICKDLPICAHVSVGEYAMLHAAA EKGVDLKTIAFESHQGF LRAGARLIITYL  
APEFLDWLDE\*

FIGURE 17

2004-04-29 14:54:54

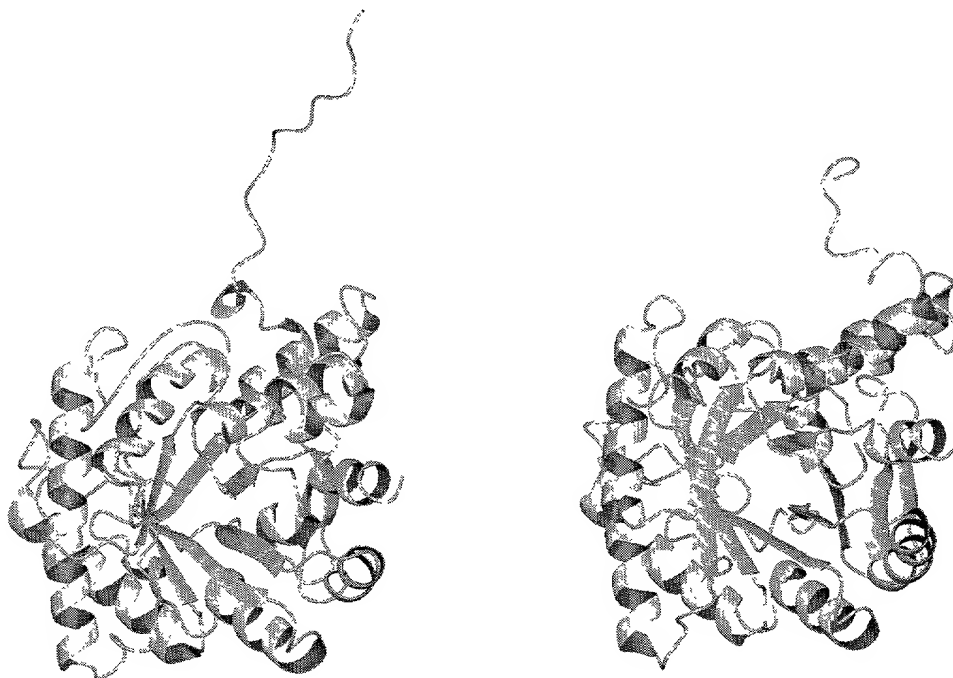


FIGURE 18

00005475-074204  
FOI 20 94750600

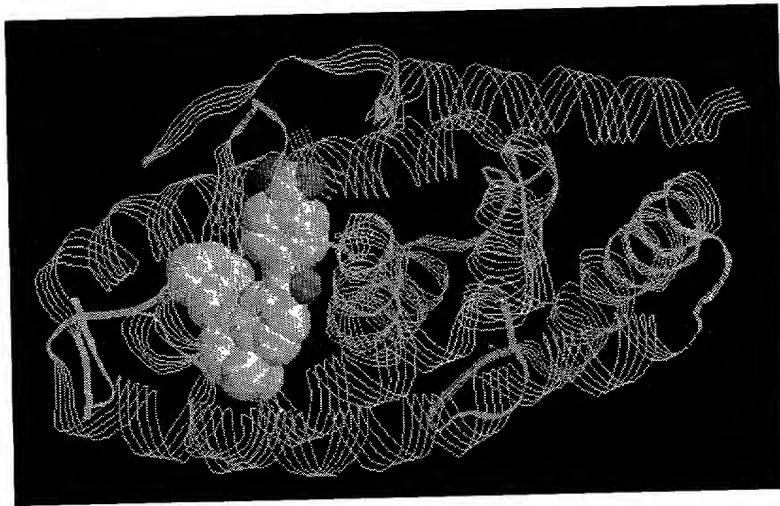


FIGURE 19

FIGURE 19

>P1;1a28  
structureX: 1a28A : 701 : : 915 : :  
AGHDNTKPDTS S S L T S L N Q L G E R Q L L S V V K W S K S L P G F R N L H I D D Q I T L I Q Y S W M S L M V F G L G W R S Y K H V S  
G Q M L Y F A P D L I L N E Q R M K E S S F Y S L C L T M W - Q I P Q E F V K L Q V S Q E E F L C M K V L L L L N T I - P L E G L R S Q T Q F E  
E M R S S Y I R E L I K A I G L R Q K G V V S S Q R F Y Q L T K L L D N L H D L V K Q L H L Y C L N T F I Q S R A L S V E F P E M M S E V I A  
A\*  
>P1;gi7766906  
sequence: gi7766906 : 27 : : 233 :  
E A N M G L N P S S P N D P V T N I C Q A A D K Q L F T L V E W A K R I P H F S E L P L D D Q V I L L R A G W N E L L I A S A S H R S I A - - V  
K D G I L L A T G L H V H R N S A H S A G V G A I F D R V L T E L V S K M R D M Q M D K T E L G C L R A I V L F N P D S - - K G L S N P A E V E  
A L R E K V Y A S L E A Y C K H K Y P - - - E Q P G R F A K L L L R L P A L R S I G L K C L E H L F F - F K L I G D T - - P I D T F L M E M L E  
A\*

FIGURE 20

FIGURE 20

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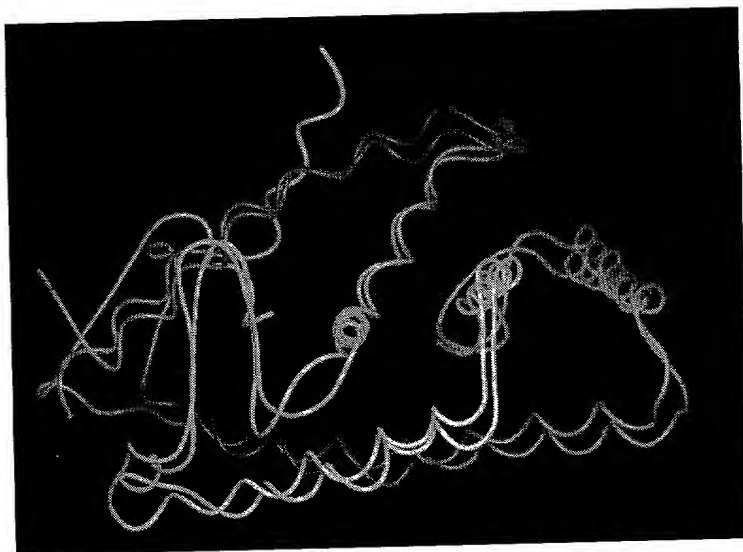


FIGURE 21

FIGURE 21

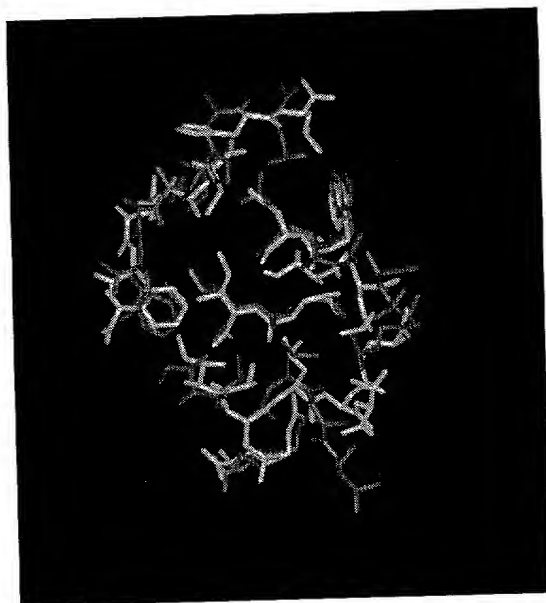


FIGURE 22

FIGURE 22

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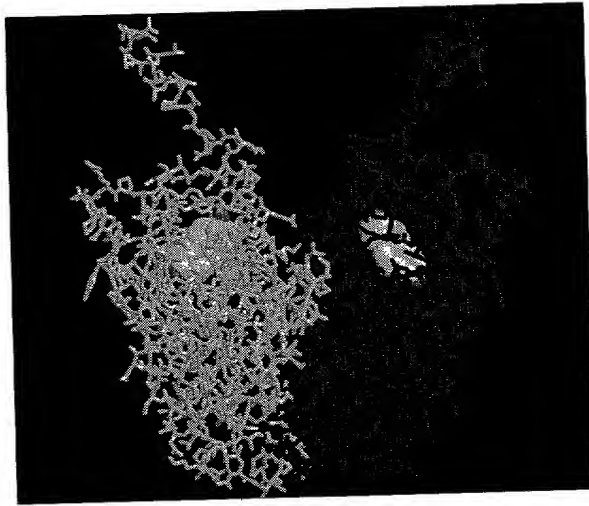
**FIGURE 23**[illegible]

FIGURE 24



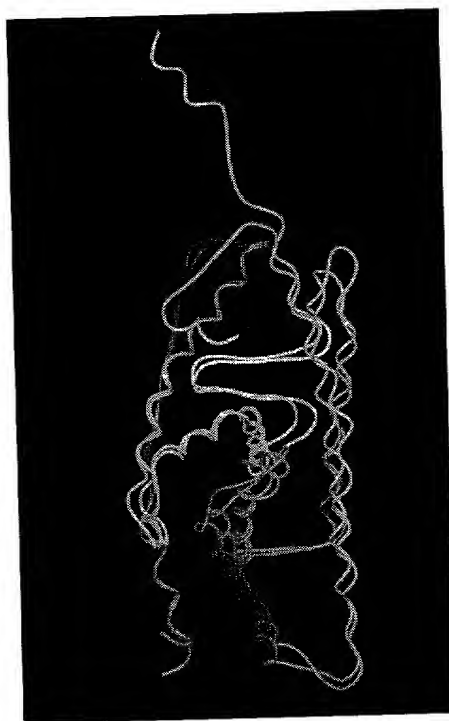


FIGURE 25

TOP SECRET

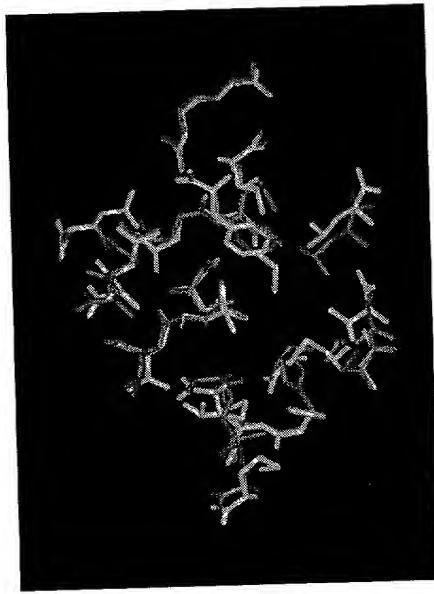


FIGURE 26

FOR 920-92000

>P1;1c3w  
structureX: 1c3wA : 5 : : 231 : :  
TGRPEWIWLAGTALMGLGTLFLVKGMGVSDPDACKFYAITTLVPAIAFTMYLSMLLGYGLTMVPFGGE--  
QN---PIYW-ARYADWLFTTPLLALLLDLADQGTILALVGADGIMIGTGLVGALTKVY--S--YRFVW  
WAISTA-AMLYILYVLFPGF-----SMRPE-VA-STFKVLRNVTVVLWSAYPVVWLGSEG-----AGI---V  
PLNIETLLFMVL-DVSAKVGFGILLRSRAIFG\*  
>P1;1e12A  
sequence: 1e12A : 4 : : 236 :  
ENALLSSSLWVNVALAGIAILVFVYMGRITRPRPRIWGATLMIPLVSISSYLGLLSGLTVGMIEMPAGHA  
LAGEMVRSQW-GRYLTWALSTPMILLALGLLADVDLGSFTVIAADIGMCVTGLAAAMTTS---ALLFRWAF  
YAISCA-FFVVVLSALVTDWAASASSAGT--A--EIFDTRLRVLTVVLWLGYPVWAVGV-----EGLALVQ  
SVGATSWAYSVL-DVFAKYVFIFILLRWVANNE\*

FIGURE 27

FILED 2020 04 23 09 50 AM '20

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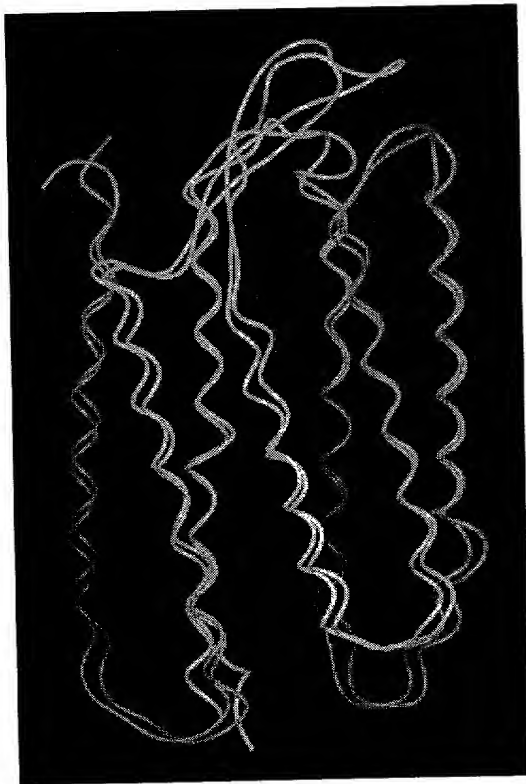


FIGURE 28

00005476-0344  
FILED-92F50660

**FIGURE 29**

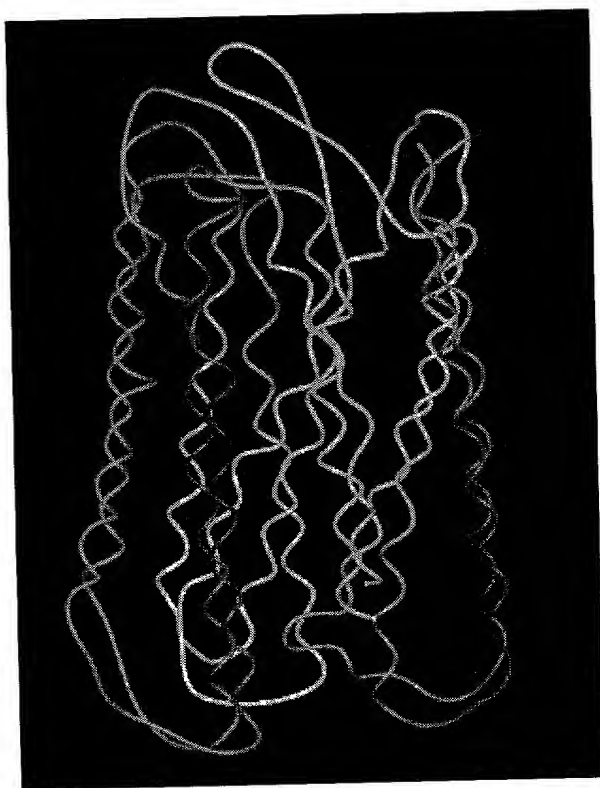


FIGURE 30

FIGURE 30

>P1;6prc  
structureX: 6prcL : 14 : : 258 : : GTLIGGDLFDWVGPFVVGFFGVSAIFFIFLGVSLIGYAASQG-P----  
---TW-DPFAISINPPDLKYGLG  
A-APLLEGGFWQAITVCALGAFISWMLREVEISRKLIGWHVPLAFCVPIFMFCVLQVFRPLLLGSWGHAFF  
YGILSHLDWVNNFGYQYLNWHYNPGHMSSVSFLFVNAMALGHLGGLILSVANP-GD----GD-----  
-KVKTA-EHENQYFRDVGYSIGALS IHLGLFLASNIFLTGAFGTIASGPFWTRG\*  
>P1;6prcM  
sequence: 6prcM : 34 : : 292 :  
YSYWLKGIGDAQIGPIYLGASGIAAFAGSTAILIILFNMAAEVHFDPLQFFR--QFFWLGLYPPKAQYGMG  
I-PPLHDGGWWLMAGLFMTLSLGSWWIRVYSRARALGLGTHIAWNFAAAIFFVLCIGCIHPTLVGSWSEGV  
FGIWPIDWLTAFSIRYGNFYCPWHGFSIGFAYGCGLLFAAHGATILAVARFG-----GDREIEQITDRG  
T--AV--ERAALFWRWTIGFNATIESVHRWGFFFSLMVMVSASVGILLTGTFVDNW\*

FIGURE 31

2025-04-24 14:54:54

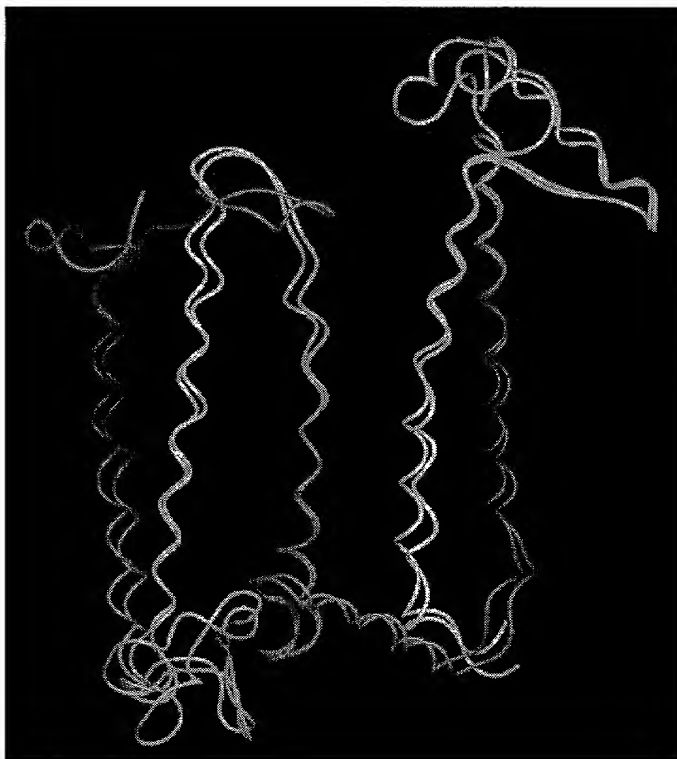


FIGURE 32

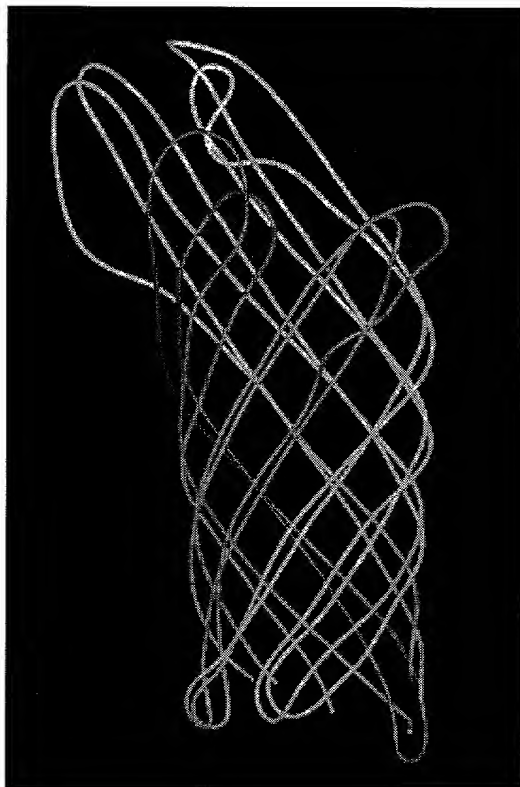
FIGURE 32



>P1;lqj8  
structureX: lqj8A : 4 : : 148 : :  
TVTGGYAQSDAQQQM-NKMGGFNLKYRYEEDNSPLGVIGSFTYTE-K--SRTASSGDYN-KNQYYGITAGPA  
YRINDWASIYGVVGVGYGKQFQTEYPTYK-NDTSDYGFSYGAGLQFNPMPENVALDFSYEQSRIRS-----  
--VDVGTWIAGVGYRF\*  
>P1;lbxA  
sequence: lbxA : 19 : : 171 : :  
YHDTGLINNN--GPTHENKLGAGAFGGYQV-NPYVGFEMGYDWL--GRMPYKGSVENGAYKAQGVQLTAKLG  
YPITDDLDIYTRLGGMVWRADTY-SNVYGKNHDTGVSPVFAGGVEYAITPEIATRLEYQWTNNIGDAHTIGT  
RP-DNGMLSLGVSYRF\*

FIGURE 33

2004-04-09 14:50:00



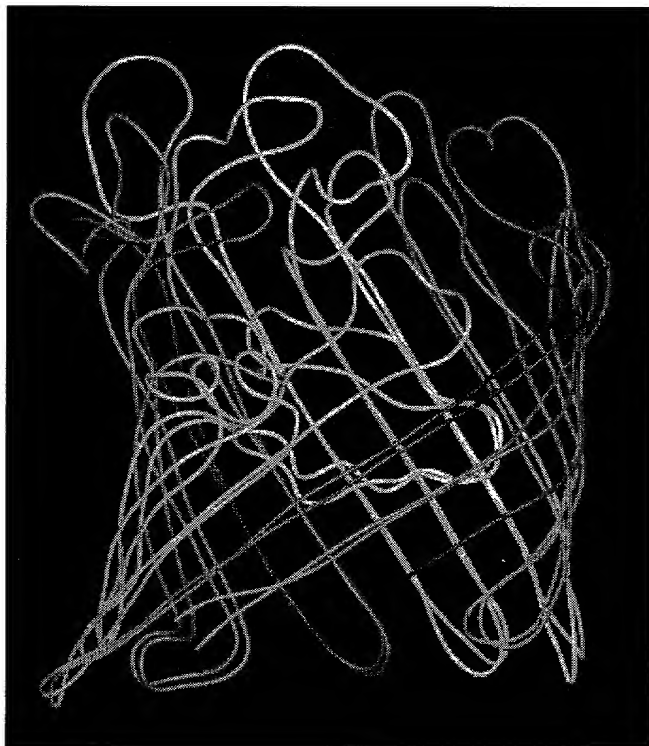
**FIGURE 34**

FIGURE 34

```
>P1;2por
structureX: 2por : 1 : : 301 :
EVKLSGDARMGVMYNGDD---WNFSSRSRVLFMTSGTTDSGLEFGASFKAHESVG-----AETGEDGTV
FLSG-AFGKIEMGDALGASEALFGD--LYEVGYTDLDDRGNDIPYL-----TGDERLTAEDNPVLLYTY-
SA-----GAFSVAASMS--DGKV-----GETSED-----DAQ---EMAVAAAYT-F--G
NY---TVGLGYEKIDSP-----DTAL-----MADMEQLELAIAKFGATNVKAYYADGELDRDFARAV
FDLTPVAAAATAVDHKAYGLSVDSTFGATTVGGYVQVLDIDTIDDVITYYGLGASYDLGGGASIVGGIADNDL
PNSDMVADLGVKFKF*
>P1;1osmA
sequence: 1osmA : 10 : : 332 :
KLDLYGKIDGLHYFSDDKDVD-GDQTYMRLGVKGETQINDQLTGYGQWEYNVQ-ANNTSSSDQAWTRLAFA
GLKFGDAGSFDYGRNYGVVY-DVTSWTDVLPE-----FGGDTY-----GSDNFLQSRANGVATYRN-
SDFFLVDGLNFALQY---QGKNGSVSGEGATNNGRGAL---KQN-----GD---GFGTSVTYD-I--F
D---GISAGFAYANS-----KRTDDQNQLLLGEGDHAETYTGGLKYDANNIYLATQYTQTYNATRAGSL-
-GFANKAQNFEEVAAQYQFDFGLRPSVAYLQSKGKDLNG-YGDQDILKYVDVGATYYFNKNMSTYVDYKINLL
DDNSFTRSGISTDD*
```

## FIGURE 35

Figure 35



**FIGURE 36**

FIGURE 36

P1;2mpr  
structureX: 2mprA : 2 : : 427 : :  
DFHGYARSGIGWTGS-----G---GEQQC-----FQA--TGAQSKYRLGNE-----  
--CETYAELKLGQEVWKEGDKSFYFDTNVAYSVNQND--WEST-DPAFREANVQGKNL---IEWLPGSTIW  
AGKRFYQRHD--VHMIDFYWDISGPGAGIENIDLGFGLS-LAATRSTEAGGSYTFSSQNIYDEVKDTAN  
DVFDVRLAGLQTNPDGVLELGVYGRANTTDGYKL-ADGASKDGMFTAEHTQSMLKGYNKFVVQYATDAMT  
TQKGQARGSDGSSSFTEKINYANKVINNG-NMWRILDHGAISLGDKWDLMYVGMYQNIDWDNNL--GTEW  
WTVGVRPMYKWTPI MSTLLEVGYDNVKS-QQ-----TGDRNNQYKITLA-QQ---WQAGDSIWSRPAIRI  
FATYAKWDEKWGYIKDGNISRYAAAT-NSGISTNSRGDSDEWTFGAQMEIWW\*  
>P1;1a0tP  
sequence: 1a0tP : 4 : : 413 :  
EFHGYARSGVIMNDSGASTKSGAYITPAGETGG-----AIGRL-----GNQ-----  
--ADTYVEMNLEHKQTLDN GATTFRKVMVADGQTSYNDWTASTS-DLNVRQAFVELGNLPTFAGPFGSTLW  
AGKRF--DRDNFDIHWDSDVVFLAGTGGGIYDVKWDGLRSNFSLYGRNFGDIDDSSNSVQNYILTMNHFA  
GPLQMMVSGLRKDNDRKDSNG-NLAKGDAANTGV-----HALLGLHND SFYGLRDGSSKTALLYG-HGLG  
AEVKGIGSDGA-----LRPGADTWRIASYGTTPLSENWSVAPAMLAQRSKDRYADGDSYQW  
ATFNLRLLIQAINQNFALAYEGSYQYMD--LKPEGYNDRQAVNGSFYKLT--APT FKVGSIGDFFSRPEIRF  
YTSWMDWSKKLN NYASDDALGS---DGF-----NSGGEWSFGVQMETWF\*

FIGURE 37

2025-03-13 15:00:00



FIGURE 38

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